

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Heinz-Dieter HELLMANN et al.
Serial No.: To Be Assigned Customer No.: 23911
Filed: Concurrently Herewith
Title: METHOD AND APPARATUS FOR EARLY FAULT
DETECTION IN CENTRIFUGAL PUMPS

INFORMATION DISCLOSURE STATEMENT

Mail Stop PATENT APPLICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem relevant to patentability of the claims of the above-identified application.


An English abstract and a U.S. counterpart of the German patents are submitted herewith. Applicant also encloses herewith a copy of a corresponding foreign Search Report citing such documents, together with an English-language version (if not already included) of that portion of the Search Report indicating the degree of relevance found by the foreign office.

The present Information Disclosure Statement is being filed concurrently with the above-captioned application, and therefore, no certification under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,

November 19, 2003



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FORM PTO-1449 U.S. Department of Commerce Patent & Trademark Office INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	Attorney Docket No. 029303.52803US	Serial No. To Be Assigned
	Applicant: Heinz-Dieter HELLMANN et al.	
	Filing Date Concurrently Herewith	Group To Be Assigned

U.S. PATENT DOCUMENTS						
Examiner Initial		Document Number	Date	Name	Classification	Filing Date (if appropriate)
	AA	6568901 B2	05/27/2003	Wang et al.	415/104	
	AB	5649449	07/22/1997	Algers	73/168	
	AC	5277543	01/11/1994	Noguchi et al.	415/118	
	AD	4909076	03/20/1990	Busch et al.	73/168	
	AE	4884942	12/05/1989	Pennink, deceased	415/104	
	AF					
	AG					
	AH					
	AI					
	AJ					

FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Country	Classification	TRANSLATION	
						Yes	No
	AK	WO 00/77405 A1	12/21/2000	PCT	F04D 29/04	Abstract	
	AL	19615923	10/31/1996	Germany	F04D 15/00	Abstract and U.S. 5649449	
	AM	4225783	02/11/1993	Germany	F04D 13/08	Abstract and U.S. 5277543	
	AN	3725754	02/16/1989	Germany	F04D 9/00	Abstract and U.S. 4909076	
	AO						
	AP						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	AQ	German Search Report
	AR	
	AS	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.